



SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: ZENECA LIMITED ., . .

(ii) TITLE OF INVENTION: GENE SILENCING

(iii) NUMBER OF SEQUENCES: 3

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: IP DEPT., ZENECA AGROCHEMICALS

(B) STREET: JEALOTTS HILL RESEARCH STATION,

(C) CITY: BRACKNELL,

(D) STATE: BERKSHIRE

(E) UNITED KINGDOM

(F) ZIP: RG42 6ET

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk

(B) COMPUTER: IBM PC compatible

(C) OPERATING SYSTEM: PC-DOS/MS-DOS

(D) SOFTWARE: PatentIn Release #1.0, Version #1.25

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US/10/085,418

(B) FILING DATE: 25-Mar-2003

(C) CLASSIFICATION:

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Kakefuda, Mary

(ix) TELECOMMUNICATION INFORMATION:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 3681 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(vi) ORIGINAL SOURCE:

(A) ORGANISM: 1-AMINO CYCLOPROPANE-1-CARBOXYLIC ACID

OXIDASE

(vii) IMMEDIATE SOURCE:

(B) CLONE: pTOM13

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

AAATTTGATA GATTCAGTTT TTATGTTTTT AGTGCTGATT ACAACATTGA AATTCTAAAT 60
TTAGAATTTA ATATTTATTA AATGTTAGTG CATTTATACA AATAACATAT TACATCTCAA 120
ATAATATTGA GTTTGTTAGA TTTTATTTGC CCTGATTCTT TATCATAAAT AGGTTTTTCCT 180
TTTAGGAAAA GGTTTGAAT TGACTATTCT TTTTTTGGTA GGAAAAAGTT TAGGACTCTA 240
TAAATAGAGG CATGTCCTT CTAACCTAAT TAGCATTAC AATGTAGTTT TAAGGGCTTT 300
GAGAGTTTTG GTTAGAGGGA GAATTGTGA ACCTCTCATG TATCCGAGT GAATTGTTG 360
AGGTTGTTTC CCTCTGTATT TTGTAATCTC ATGTTTATAG TGGATTGCTC ATTCCTTTG 420
TGCAGTAGG TCCATTGACC GAACACGTT AAATTTTGT GTCTTTTGGT ATATTTCTG 480
TTCTTCTTAC TCGTGGTCTT TCGAGGTTG CTTTGCTAGC TTCCGCGTTT ACACCTGCTT 540
ATTTTEGGTC CTAACAAGTG GTATCAGAGC CAGATTCAAT AATGGAGTCA GGTGTAGTGG 600
TTGATATATG CATCATTCGA CCAACTTACA AAGAGCTGCT CATCTTGAAG GGTCTAGTGG 660

CTCTGTGTTG AGACATAAAT TTTGTAAGG AGATTATGGA GAGGAGAAGC AAGTTGTTGA 780
 AGATTAAGTA AAGAAGGTGG ACAAATCTAT TTTGTCAGAA ATT CAGGCCA AGGGGGAGAT 840
 TTGTTGGGTT TTATTTCCCG TGATTTTSTA CCATAAATAG GTTTTCCTTT AAGGAAAAAG 900
 TTTTGAATTG ACTATTCTTT TTTTGGTAGG AAAAGSTTTA GGATTCTATA AATAGAGGCA 960
 TGTTCCTTCT AACTTAATTA GCATTACAA TGTAATTTTA AGGGCTTTGA GAGTTTTGGT 1020
 TAGAGGGAGA ATTTGTGAAC CTCTCATGTA TTCCGAGTGA ATTGGTTGAG GTTGTTCCTC 1080
 TCTGTATTTT GTACTCTCAT GTTTATAGTG GATTGCTCAT TTCCTTTGTG GACGTAGGTC 1140
 GATTGACCGA ACCACGTTAA ATCTTGTGT CTTTGGTAT ATTTCTCGTT GTCTTCTTAC 1200
 TCGTGGTCTT TCGAGGTTTG CTTTGCTAGC TTCCGCGTTT ACACCTGCTT ATTTGCGGTC 1260
 CTAACAGAGT TCGATGGGTT GAATCTATAA AAAGAAAAAT ATACTCGTGA TTCACGATTA 1320
 TTTATATGAA AATATAATAA ATATTGAATT TCCTTTGCTA TTTCTTATGT TTACGTCTTT 1380
 ATATTTCAAA TTATTCACC AATACGACA AGCCCTAGGC CATCTCTAGG AAATTCATAC 1440
 AATTTTTTTT TTGTTGTTAA CTAGTTAAAT TGGCAGCCTT AAAGATTATT GTAAAATTCA 1500
 AGGCAACTTC CTCAAGTACT ACAACTACAT TGTAACATCC CAGTCAAAGT GTCCTAAAAT 1560
 TTTATAAAAT TTGACACATG AAACAATAGC ACAATAAATT TTAGTACTAT TGCAGCCATG 1620
 GCCCATAAGC CATCATGTAT TATAGTCAAA ATGGGTCCTT TTCCAATTTG TCTTGATCCC 1680
 AAAATCCCTT TGTAGGTAAG ATGGTTCAAC AAGGAAGTAT GACTCTTAAG GTAGACTTGG 1740
 ACTCATAGAC TTGTCATAAC TCATAAGAC TTGGAATATA ATAATTATTC ATTTAAATTA 1800
 TAATTCTCTA CTTTAATATC TTCTACTATA AATACCCTTT CAAAGCCTCA TTATTTGTAC 1860
 ATCAAACATT GATATTCATC TCTTCAATCT TTTGTATFCA CATATTCTAT TTATTCAATA 1920
 CACTTAGGAA AACACTTTAC CAAGAAATTA AGATGGAGAA CTTCCCAATT ATTAACCTGG 1980
 AAAAGCTCAA TGGAGATGAG AGAGCCAACA CCATGGAAAT GATCAAAGAT GCTTGTGAGA 2040
 ATTGGGGCTT CTTTGAGGTA ATCATAAATT ACATAAACAT ATTAATATGT TTGTTTCAAT 2100
 TTATCAGTCA TACTTTTCTC TGTTTAAAA TTAATGTGAC TTTCAATATT TAATAATTCG 2160
 CATGACATGT TTATAACACA ACAAGATATA GGTACATTT TGATACATTA TATATAACTT 2220

GAACCATGGA ATTCCACATG AAGTAATGGA CACAGTAGAG AAAATGACAA AGGGACATTA 2400
 CAA:GAAGTGC ATGGAACAGA GGT:TAAGGA ACTAGTGGCA AGTAAGGGAC TTGAGGCTGT 2460
 TCAAGCTGAG GTTACTGATT TAGATTGGGA AAGCACTTTC TTCTTGCGCC ATCTTCCTAC 2520
 TTCTAATATC TCTCAAGTAC CCGATCTTGA CGAAGAATAC AGGTACATAC ATGTGTCCTA 2580
 CATATTGCGT ATATAATAAA TAAACACAAA ATTTAAGTTA TATACGCTGA CAGTATAACT 2640
 AATTATAATG TTGTACCAAA TGATGCAGAG AGGTGATGAG AGATTTTGCT AAAAGATTGG 2700
 AGAAATTGGC TGAGGAGTTA CTTGACTTAC TCTGTGAAA TCTTGGACTT GAAAAAGGTT 2760
 ACTTGAAAAA TGCCTTTTAT GGATCAAAAG GTCCCAACTT TGGTACTAAA GTTAGCAACT 2820
 ATCCACCATG TCCTAAGCCC GATTTGATCA AGGGACTCCG CGCTCATACA GACGCAGGAG 2880
 GCATCATACT TCTGTTCCAA GATGACAAAG TGAGTGGCCT TCAACTCCTC AAAGACGAGC 2940
 AATGGATCGA TGTTCCTCCC ATGCGCCACT CTATTGTGGT TAACCTTGGT GACCAACTTG 3000
 AGGTACAAGA TTCACTAAGT GTGTGTGTTT TTATCACTAT AACTTAGAAG TAGTAACTAA 3060
 AAATGGTATT AATGAAATGT TATAAAAACA GGTGATCACT AACGGGAAGT ACAAGAGTGT 3120
 GCTGCACAGA GTAATTGCAC AAACAGACGG GACACGAATG TCATTAGCCT CATTTTACAA 3180
 TCCAGGAAGT GATGCAGTAA TATATCCAGC AAAA:ACTTTG GTTGAAAAAG AGGCAGAGGA 3240
 AAGTACACAA GTGTATCCAA AGTTTGTGTT TGATGATTAC ATGAAGTTAT ATGCTGGACT 3300
 CAAGTTTCAA GCCAAAGAGC CAAGATTGA AGCAATGAAG GCAATGGAAA GTGATCCAAT 3360
 TGCAAGTGCT TAGATCCCAA TTCAATTAAA AAAATTGGTG TTTGAAAAAT ATATTTAAAT 3420
 ATAGCAATCT ATGTATACAC ATTATTTGCT CTTCTTATGT ATGGTAGAAT AAAGTTAGTA 3480
 TTA:AAAAAGA TTGTGATTTG CTGCATATGT ATCAAAAAGA GTCTAATAT TTGTATCTAT 3540
 AAATAAGGTG CCTTCTAGTG AAATTATACA AATAATAATT TGGAGTGTAT TGTTCTTTCT 3600
 CATGTAATTT AACTTTTAAG TATCTTACTT TACAATATAC TGTTCACTTA TTGAACATAT 3660
 TGAGTGATAT ATTGACTCAA T 3681

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:

(B) CLONE: oligo dT-primed cDNA - page 13

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

CATTCATCTC TTCAATCTTT TG 22

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 26 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:

(B) CLONE: oligo dT-primed cDNA (SEQ3) page 13

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CTTAATTCT TGGTAAAGTG TTTTCC 26